

Name_____ **No calculators. Present neatly. Score**_____.

1) Analyze and sketch a graph of the function. Label any intercepts, relative extrema, points of inflection, and asymptotes.

$$y = \frac{x^2 - 6x + 12}{x - 4}$$

2) Briefly discuss the Extreme Value Theorem.

Your work:

Name_____ **No calculators. Present neatly. Score**_____.

1) Analyze and sketch a graph of the function. Label any intercepts, relative extrema, points of inflection, and asymptotes.

$$y = \frac{-x^2 - 4x - 7}{x + 3}$$

2) Define the following terms: inflection point, local maximum, critical number, absolute minimum, and stationary point.

Your work: